

Villemard, 1910 – At School

Ruining the surprise

1. AI touches everything, it is a *systems-technology*
2. Technologies *shape* our world and we have a *responsibility* for technology
3. *Responsibility* is a practice

| Who am I?



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Duuk Baten

Advisor Responsible Tech

duuk.baten@surf.nl

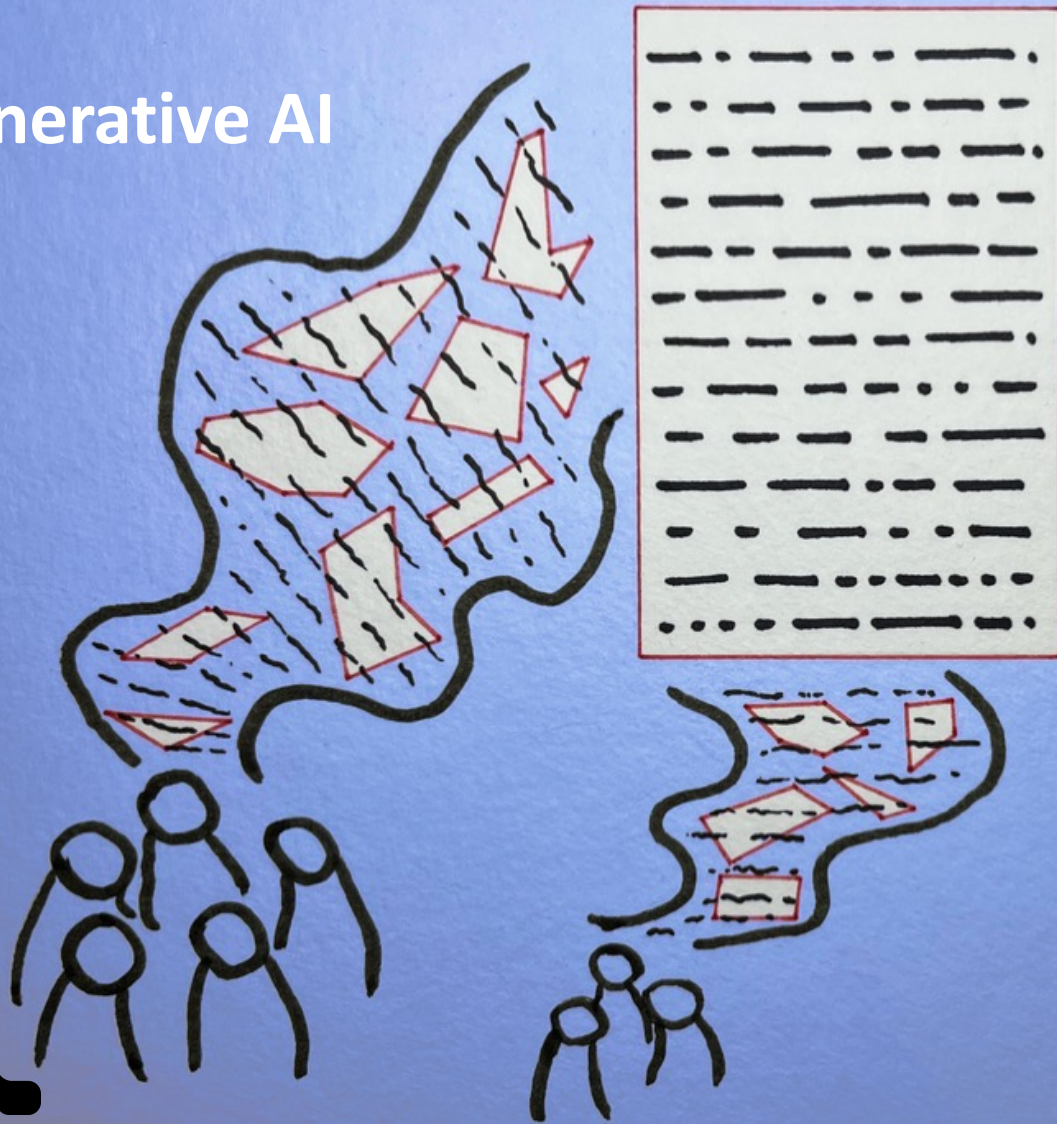
SURF Innovation Lab – Program Public Values

- *‘Responsible Tech’ – how do we use new technology responsibly*
- Member of EU expert group for ethical guidelines for AI in education
- Dutch AI coalition working group Education
- GPT-NL (training a Dutch LLM)
- Expedition AI – collaborative approach towards AI in education by SURF & Npuls →

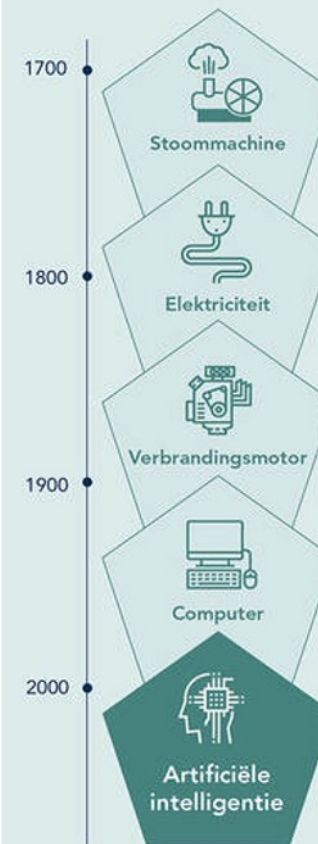


Generative AI

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AI als systeemtechnologie



WRR rapport 105, 2021



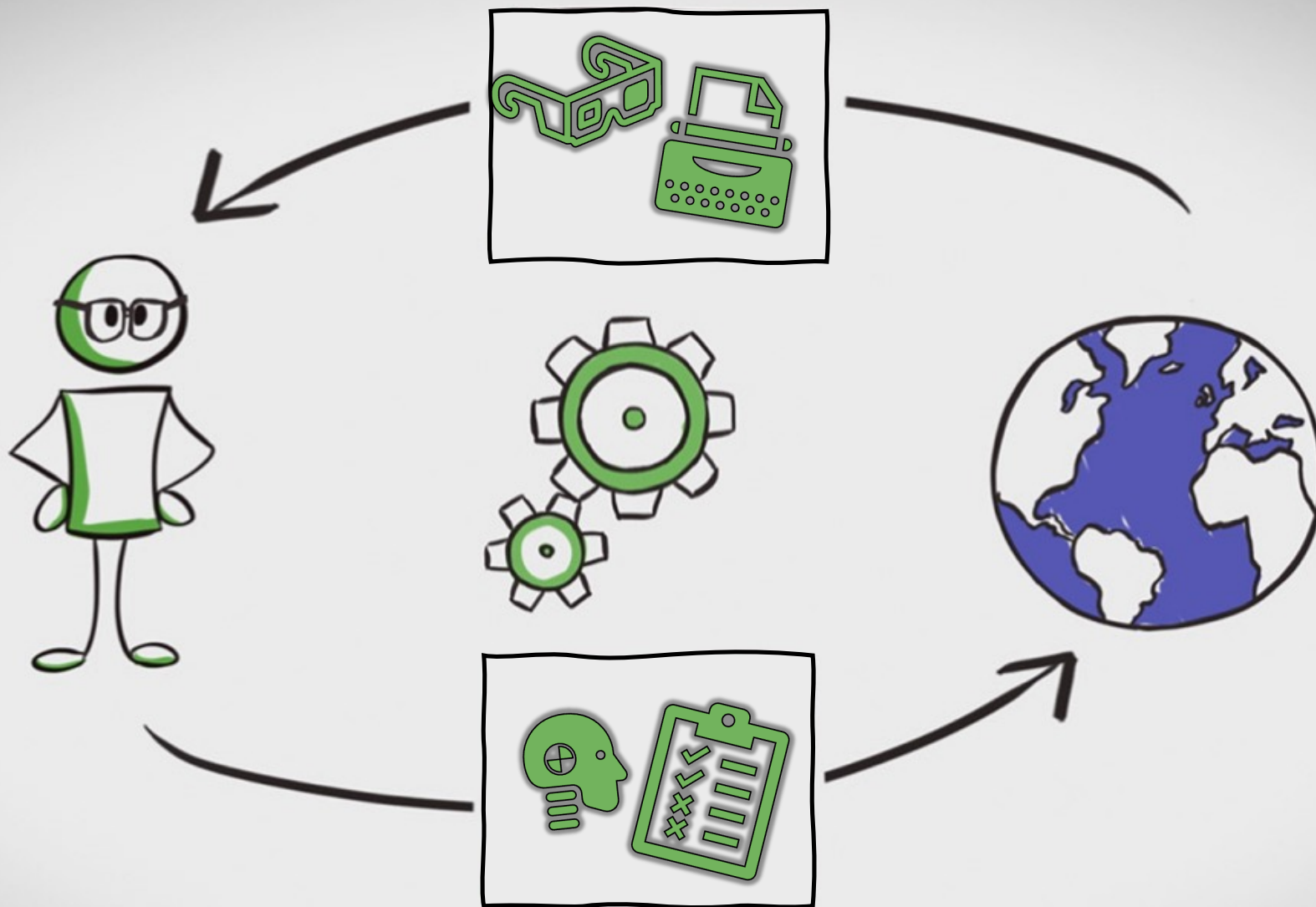
TECHNOLOGY



DOMAIN

**AI touches everything, it
is a *systems-technology***

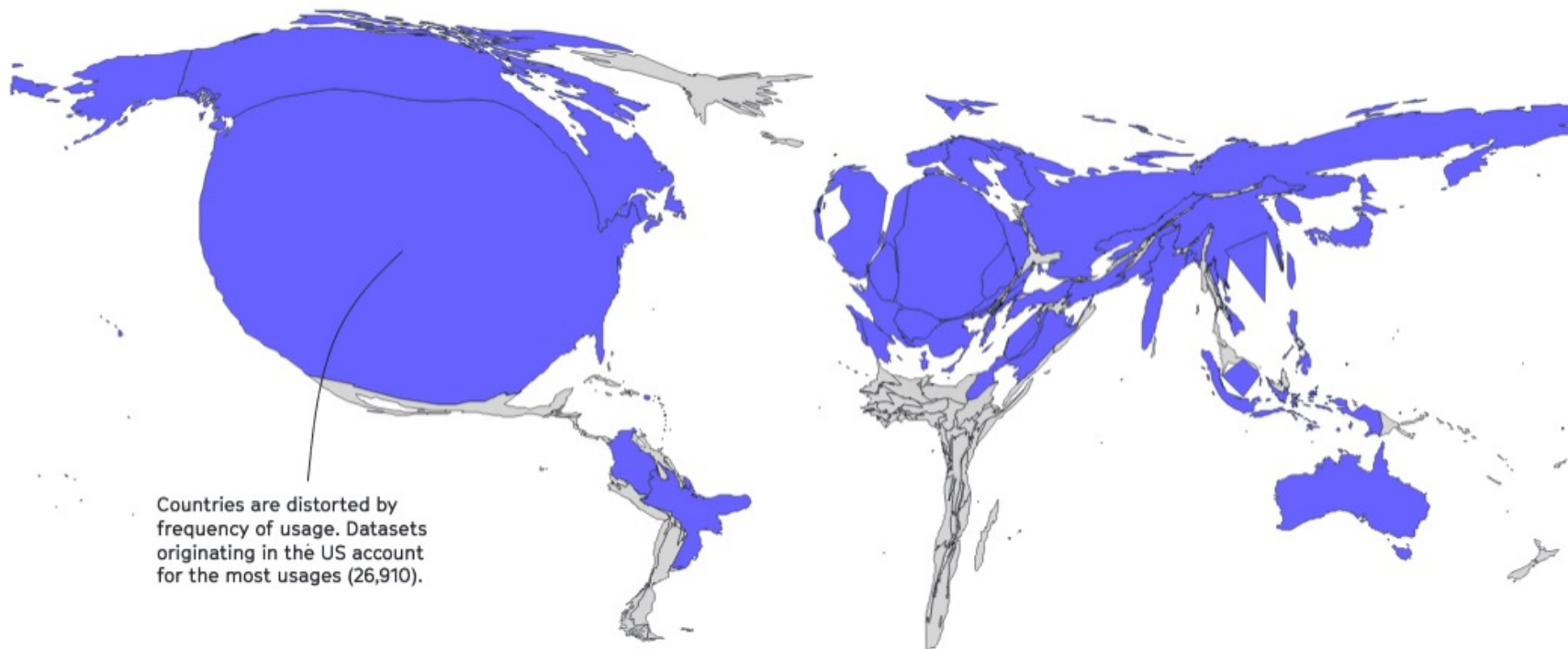
Technology shapes our view of the world



 This impact is not
neutral

Frequency of dataset usage by country

● Usage of datasets from here ● No usage of datasets from here



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i This map shows how often 1,933 datasets were used (43,140 times) for performance benchmarking across 26,535 different research papers from 2015 to 2020.

<https://2022.internethealthreport.org/facts/>

| A rise in challenges

NEWS | 24 October 2019 | Update [26 October 2019](#)


Millions of black people affected by racial bias in health-care algorithms

Study reveals rampant racism in decision-making software used by US hospitals – and highlights ways to correct it.

[Heidi Ledford](#)

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Black people with complex medical needs were less likely than equally ill white people to be referred to programmes that provide more personalized care. Credit: Ed Kashi/VII/Redux/eyevine

 **United Nations** | **UN News**
Global perspective Human stories

Urgent action needed over artificial intelligence risks to human rights



[Unsplash/Michael Dziedzic](#) | Artificial intelligence could help to boost the provision of healthcare around the world.

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15 September 2021 | [Human Rights](#)

 **iapp**

Privacy Perspectives

Digital welfare fraud detection and the Dutch SyRI judgment

[Sep 23, 2021](#) [Save This](#)

 Frederik Zuiderveen Borgesius
Nonmember Contributor

 Marvin van Beikum
Nonmember Contributor

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States worldwide are turning to technology to make the welfare state more efficient and mitigate welfare fraud. In the Netherlands, the state used a digital welfare fraud detection system called Systeem Risico Indicatie. The SyRI was a system that used personal data from different sources and uncovered fraud. In 2020, a Dutch court decided the SyRI legislation was unlawful because it did not comply with the right to privacy under the European Convention of Human Rights. This is among the first time a court invalidated a welfare fraud detection system for breaching the right to privacy. We analyze the judgment and its implications in a [full paper](#); below are some of our main points.

Technologies *shape*
our world and we
have a *responsibility*
for technology

How do you make sure
| you responsibly engage
with new technology?

| 3 main types of *Western* ethical theory



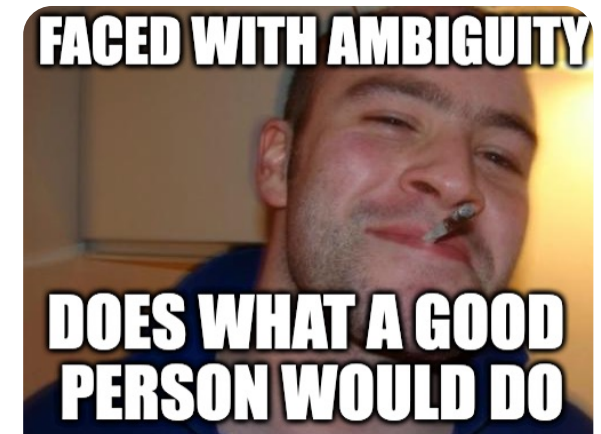
Duty-based Ethics

What duties do we have towards ourselves and others?



Consequentialism

The morally best choice is that which gives the best end-state.



Virtue Ethics

What does it mean to be a good person, to make the right choices.

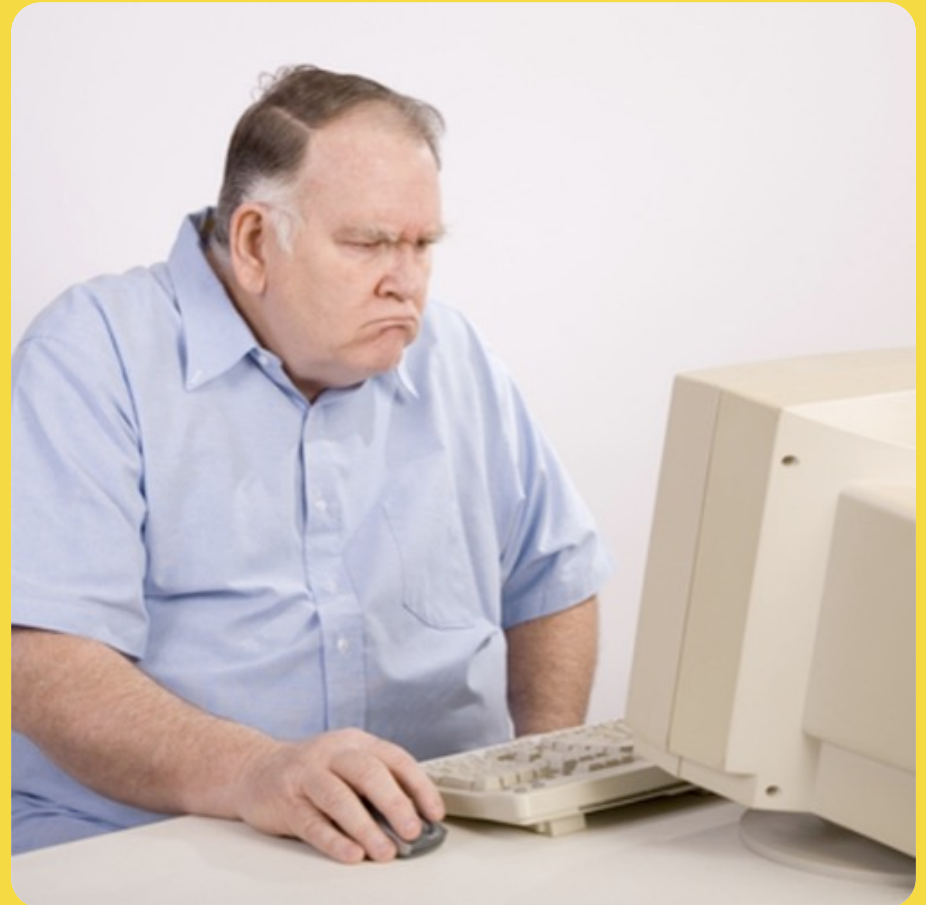
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| Dealing with Reality

“Culture of accountability”

Helen Nissenbaum (1977) identified four barriers to accountability in digital systems and society:

- (1) The problem of many hands
- (2) The acceptance of computer bugs as an inherent element of large software systems
- (3) Using the computer as scapegoat
- (4) Ownership without liability



Responsibility as Practice

Responsibility as Practice

➔ The idea that responsibility is *not just a theoretical concept*, but a *practical skill* that needs to be developed and exercised.

“Ethics is a process, not a destination”

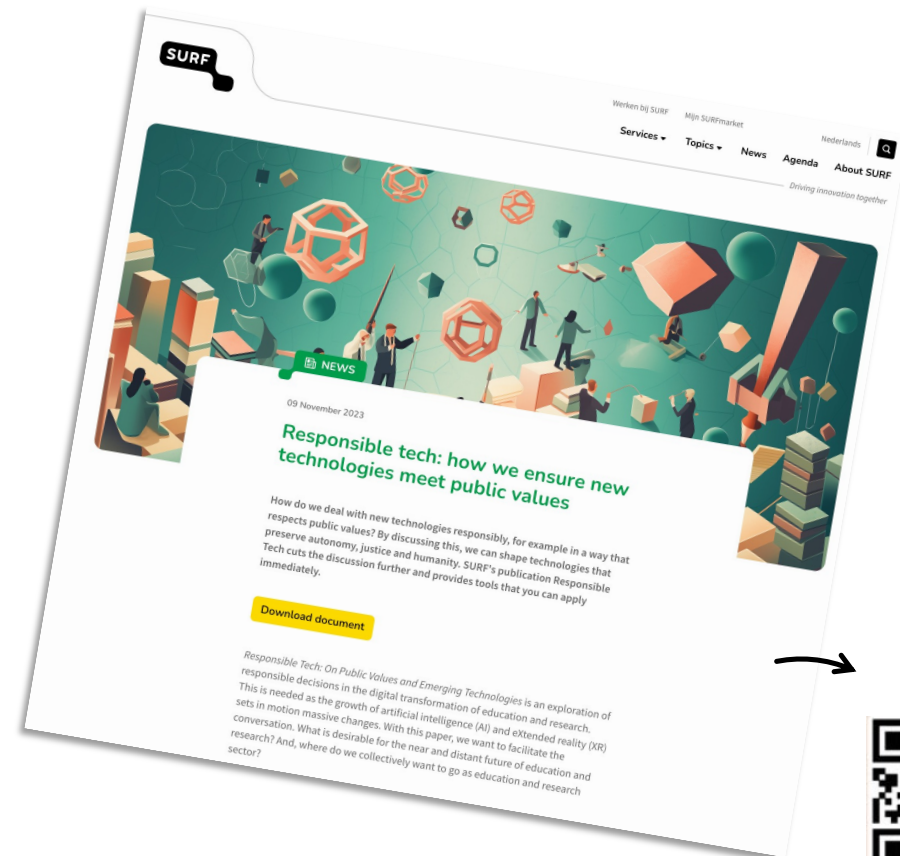
National Academies of Sciences,
Engineering, and Medicine (USA)

Responsibility is a
practice

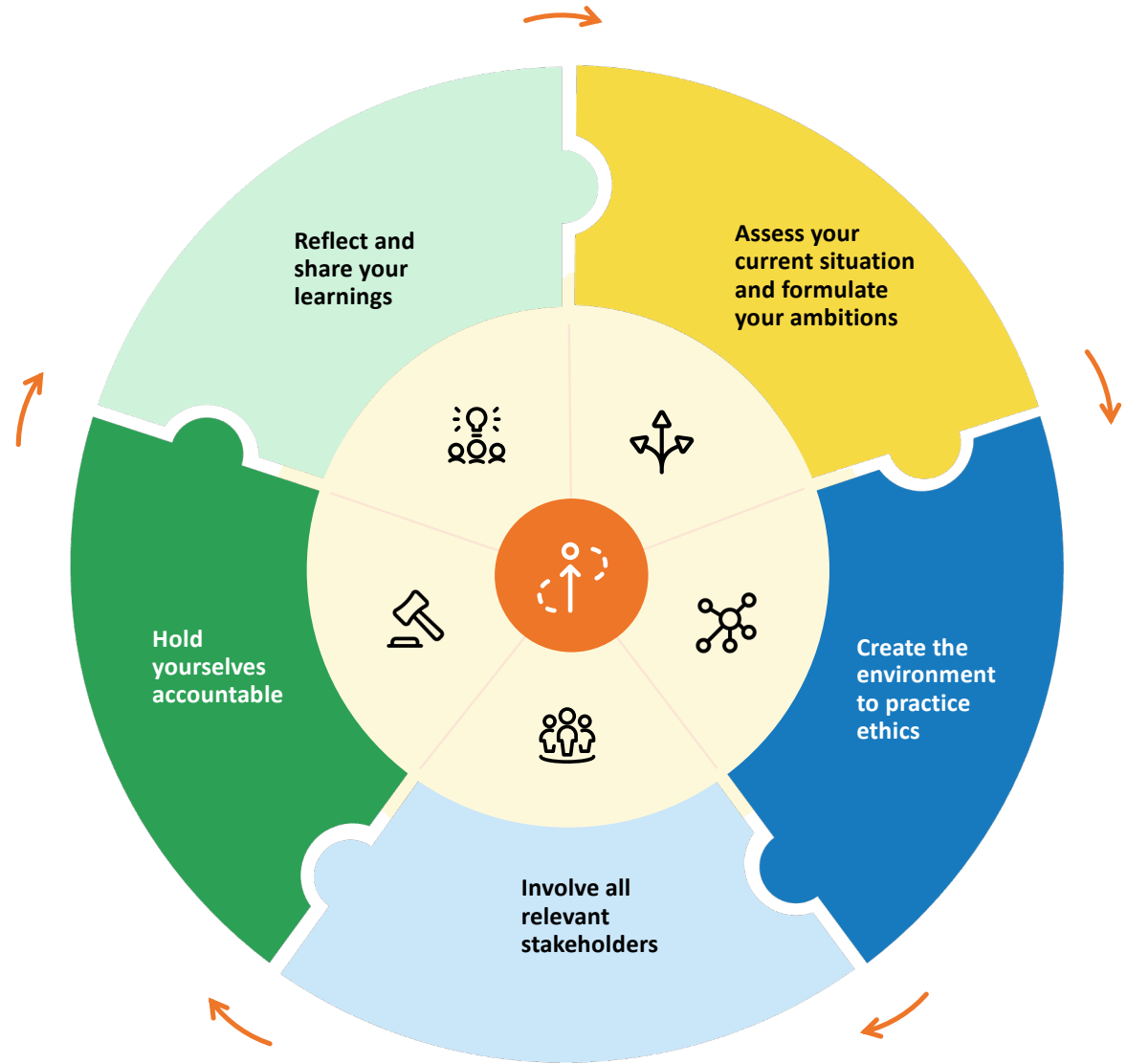
A good start in 5 steps

We formulated 5 recommendations in our discussion paper

‘Responsible tech: how we ensure new technologies meet public values’

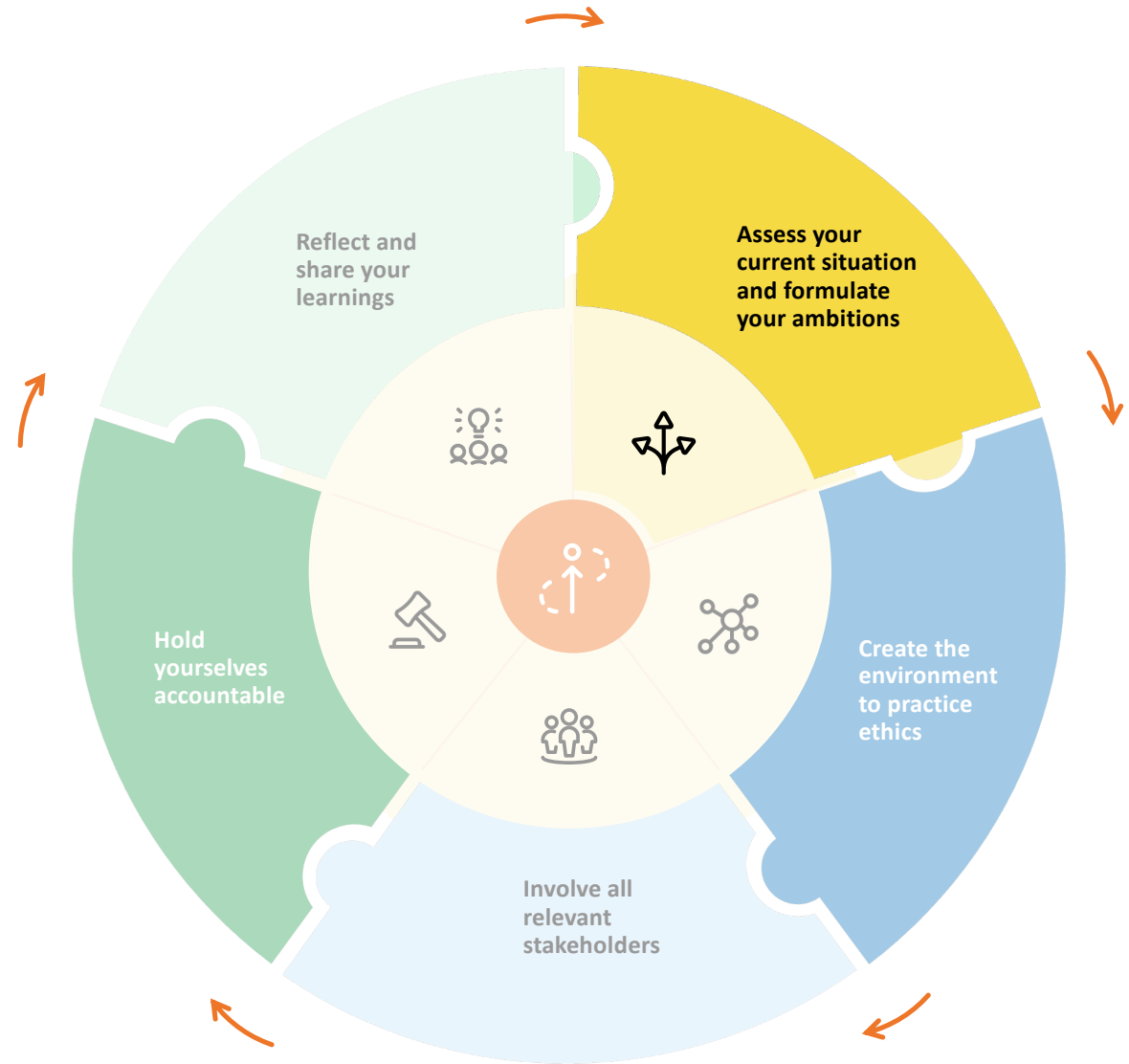


How do we get started?

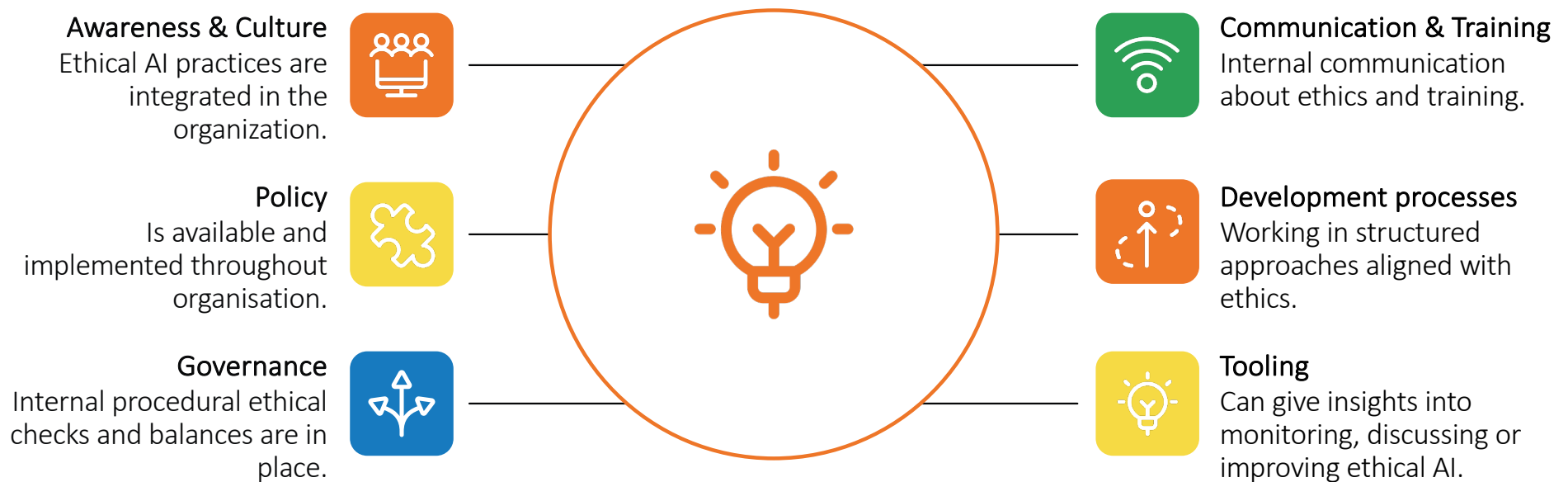


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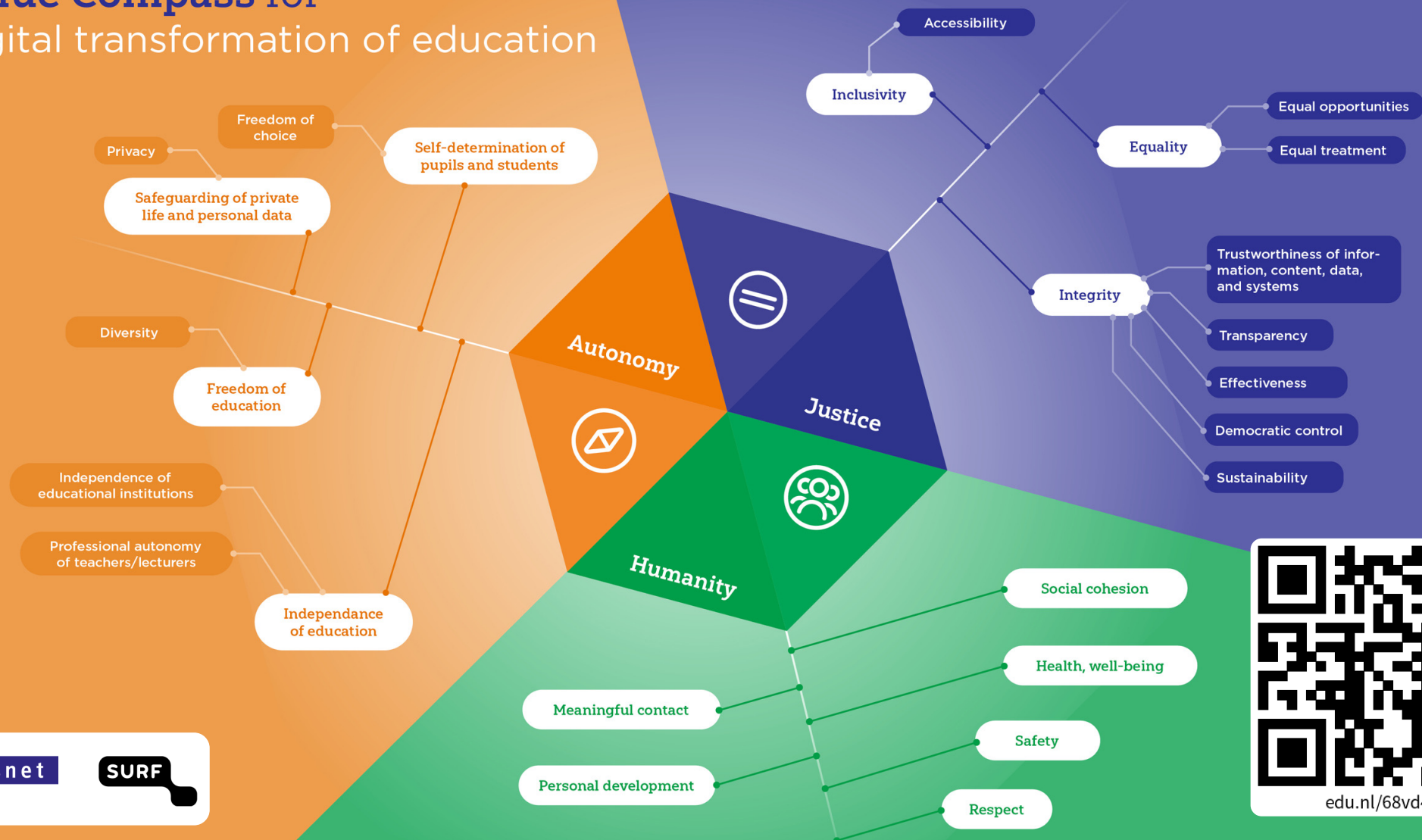
- Recognise where you are at. E.g. impact assessments (IAMA) of AI ethics maturity-models.
- Formulate your ambitions. What are you trying to achieve, which values are central?
- Make choices, do you want to use certain technologies?



Pilot with AI Ethics Maturity framework (Krijger et al. 2022)



Value Compass for digital transformation of education



Kennisnet

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edu.nl/68vd4

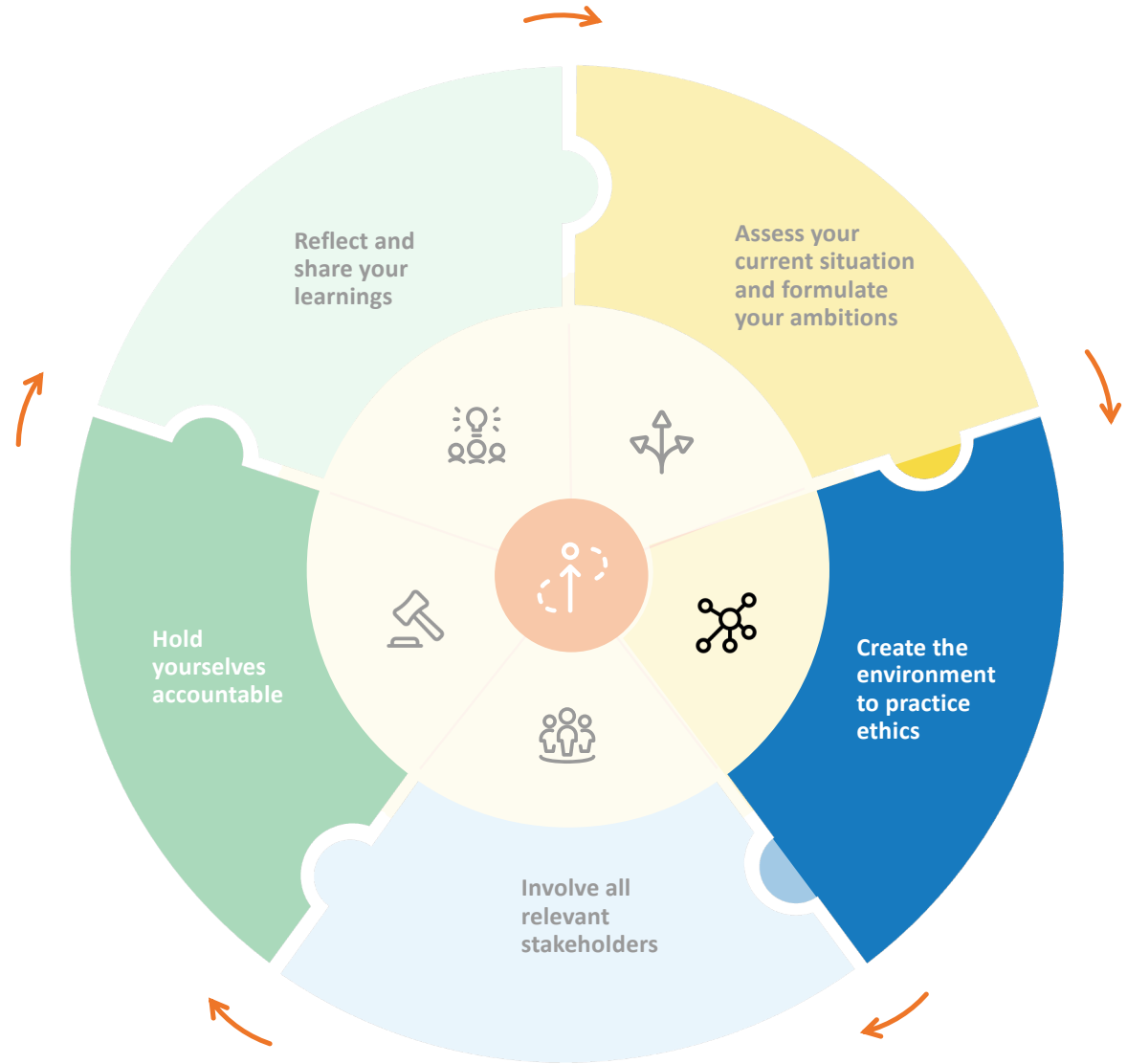
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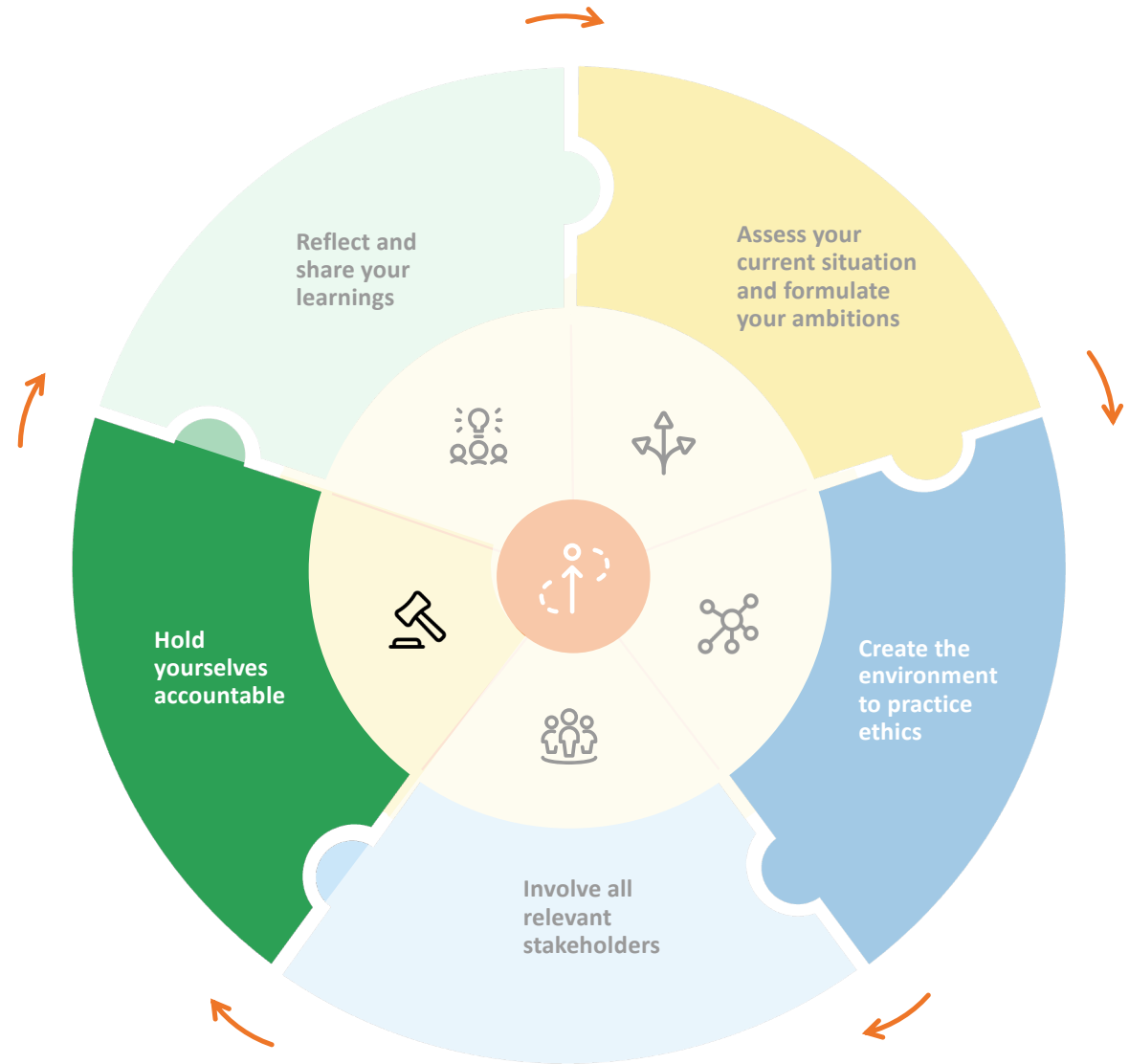
How do we get started?

- Use an iterative approach, try something, make choices, and reflect
- Make room for tensions and discomfort
- Arrange for diverse project-teams, steering-groups, and advisory committees



How do we get started?

- Create the needed structure to support taking responsibility (e.g. ethics boards)
- Prioritize transparency around technology (e.g. commitments)
- Take responsibility for the applications you promote



Holding ourselves accountable through transparency

Within our project we commit to (amongst other):

- Publicly communication about commitments, decision workflows, and definitions of success of the project
- All code will be open-source
- Datasheets and model-cards for all datasets and models (according to industry best practices)
- The ambition to publish all our datasets (when possible)
- Training only on data we have licenses for
- Dedication to privacy
- Focus on diversity of the dataset
- Public reporting on our decisions and reasoning

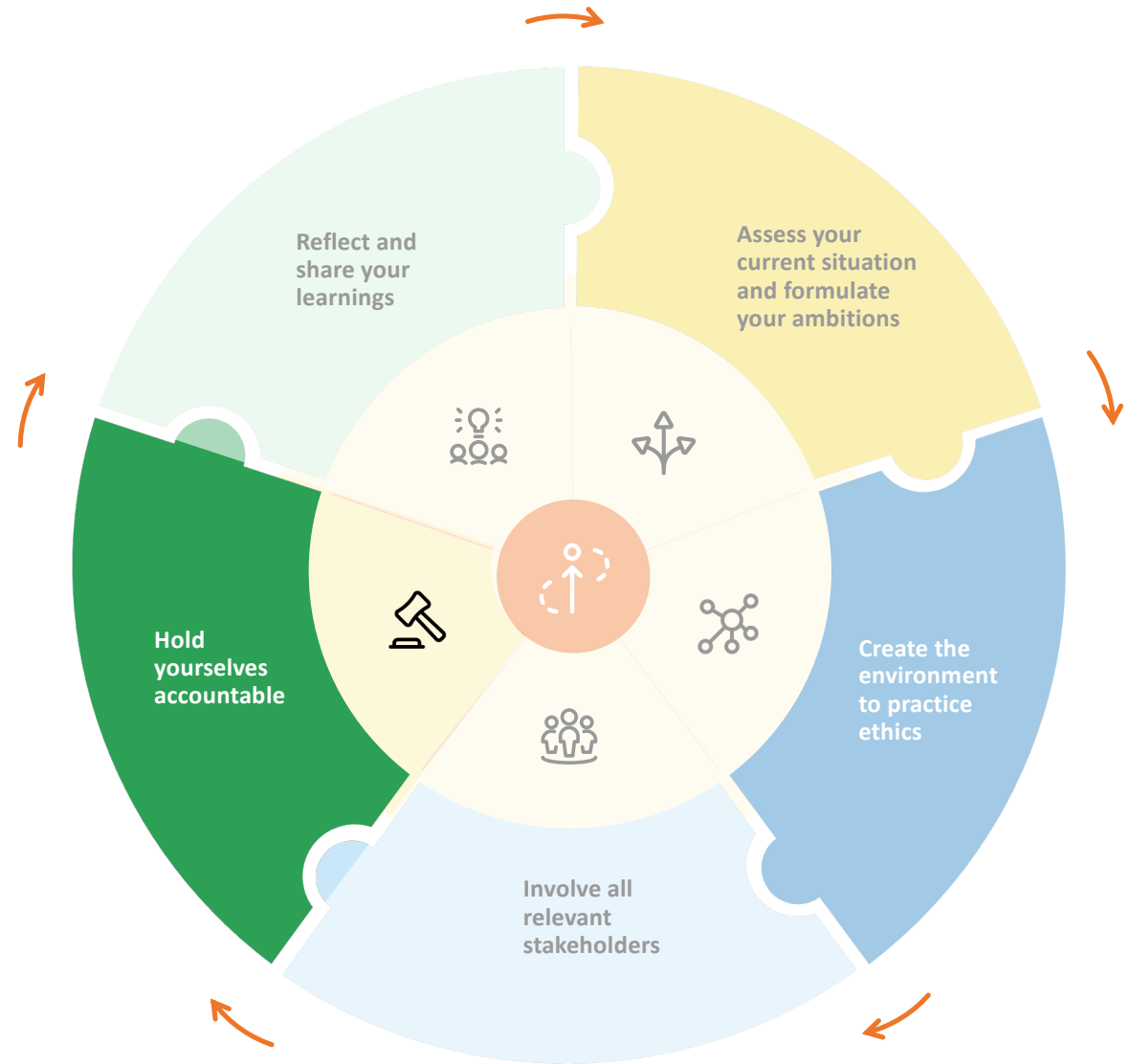
Read (in Dutch still): <https://gpt-nl.nl/commitments/>

Public commitments help us hold ourselves accountable

Public values can cause tensions

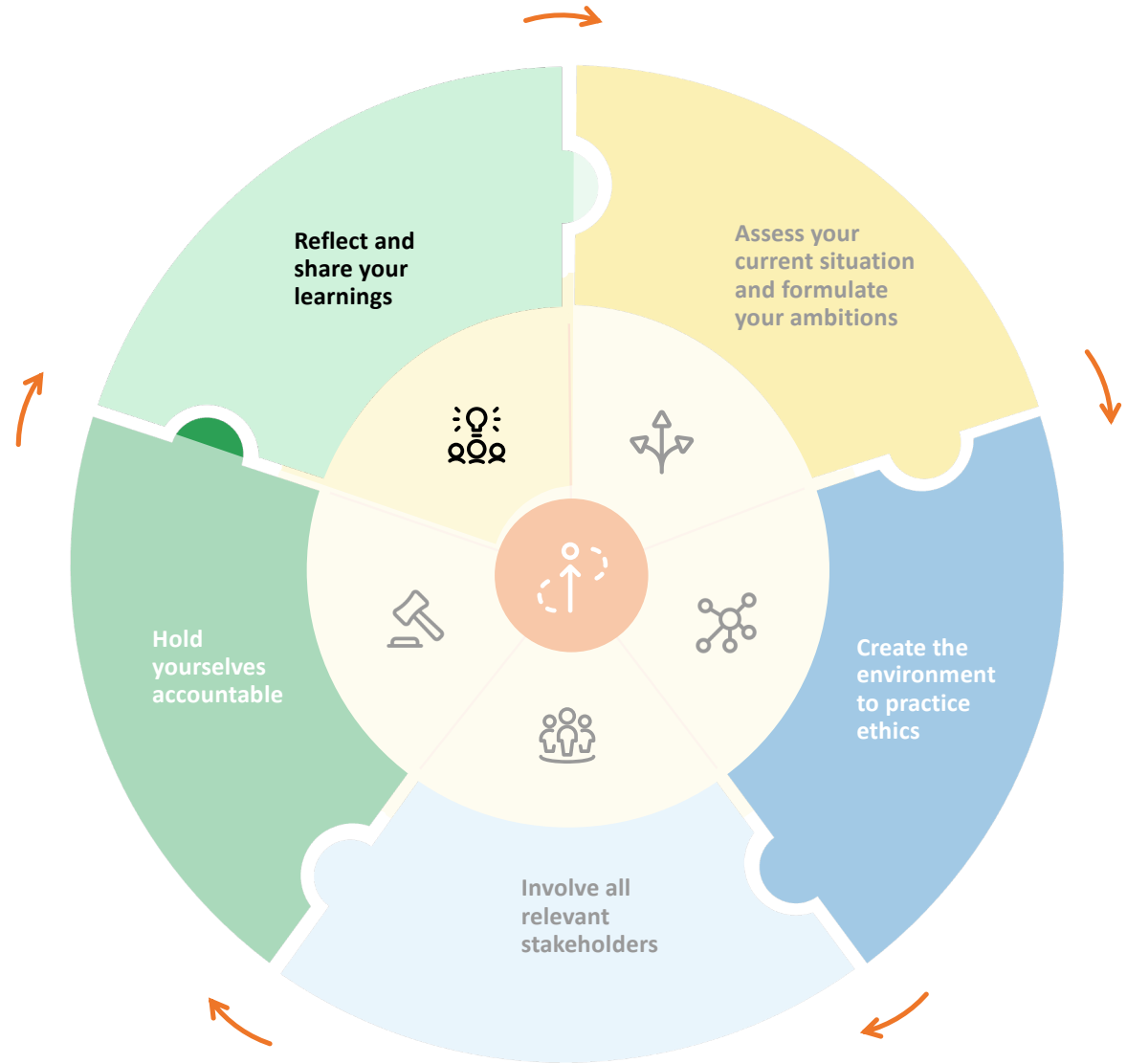
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How do we get started?

- Form a learning community, within your organization or with peers
- Share lessons learned or best practices (e.g. collect 'brilliant failures')



A man with a large afro and a beard, wearing a light blue button-down shirt, is painting a landscape on a canvas. The canvas shows a mountain peak, evergreen trees, and a body of water. He is holding a paintbrush and a palette with various colors. The background is dark.

As long as you're learning,
you're not failing.

An overhead photograph of four people sitting around a large wooden table. The table has a large white sheet of paper in the center. The people are looking down at the paper. On the table, there are pens, glasses, and a coffee cup. The background is a dark wood floor.

**What does *responsible tech* in
the NREN look like?**

Let's stop accepting bad technology.
And do better!



Join the Responsible Tech ambition!

Looking forward to hear from you:
duuk.baten@surf.nl

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Links & literature

- Kennisnet. (2020). Weighing Values: an ethical perspective on digitalisation in education. Kennisnet (Authors: Pijpers, R., Bomas, E., Dondorp, L., & Ligthart, J.) ([link](#))
- WRR (2021) 'Opgave AI' - ([link](#))
- Npuls (2024) The state of AI and the modern education institution – ([link](#))
- SURF (2023) Responsible Tech: On Public Values and Emerging Technologies - ([link](#))
- European Commission, Directorate-General for Education, Youth, Sport and Culture, *Ethical guidelines on the use of artificial intelligence (AI) and data in teaching and learning for educators*, Publications Office of the European Union, 2022, <https://data.europa.eu/doi/10.2766/153756>
- Forthcoming: Molenaar, I., Baten, D., Bard, I., & Stevens, M. (2024). AI and Education: Different Perceptions and Ethical Directions. In N.A. Smuha (Eds.), *Cambridge Handbook on the Law, Ethics and Policy of Artificial Intelligence* (2024)